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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/917,111	•	07/27/2001	Daniel Albert Voce	40-E-01	40-E-01 9782	
28581	7590	03/07/2006		EXAMINER		
DUANE M	ORRIS 1	LLP	BLOUNT, STEVEN			
PO BOX 520 PRINCETO		8543-5203		ART UNIT PAPER NUMBER		
	,			2668		
				DATE MAILED: 03/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/917,111	VOCE ET AL.	
Office Action S	Summary	Examiner	Art Unit	
		Steven Blount	2668	
The MAILING DATE Period for Reply	of this communication app	ears on the cover sheet wit	h the correspondence addr	ess
 Failure to reply within the set or external external	FROM THE MAILING DA under the provisions of 37 CFR 1.13 ling date of this communication. ove, the maximum statutory period wended period for reply will, by statute, or than three months after the mailing	ATE OF THIS COMMUNIC 6(a). In no event, however, may a re	ATION. ply be timely filed 'HS from the mailing date of this common than the mailing date of this common than the common that is not become that the common than the common that the common than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common than the common than the common t	
Status				
2a)☐ This action is FINAL . 3)☐ Since this application	is in condition for allowar	action is non-final.	ers, prosecution as to the n	nerits is
Disposition of Claims			•	
5) ☐ Claim(s) is/are 6) ☑ Claim(s) <u>1 - 6</u> is/are r 7) ☐ Claim(s) is/are	n(s) is/are withdrav allowed. ejected.			
Application Papers				
, ,	n is/are: a) ☐ acce est that any objection to the o heet(s) including the correcti	epted or b) objected to b drawing(s) be held in abeyand on is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	, ,
Priority under 35 U.S.C. § 119				
2. Certified copies3. Copies of the capplication from	e) None of: s of the priority documents s of the priority documents certified copies of the prior n the International Bureau	s have been received. s have been received in Ap ity documents have been	oplication No received in this National St	age
Attachment(s) 1) Notice of References Cited (PTC 2) Notice of Draftsperson's Patent I 3) Information Disclosure Statemer Paper No(s)/Mail Date	Orawing Review (PTO-948)	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-1	52)

DETAILED ACTION

A. Claims 2 – 5 are rejected under 35 U.S.C. 112 second paragraph for failing to particularly point out and distinctly claim the subject matter which the applicant regards as their invention.

In lines 25+ of claim 2, the phrase "while tending to avoid" is indefinite.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicants Admitted Prior Art (hereinafter AAPA) in view of U.S. patent application number 20020003776 to Gokhale et al.

AAPA teaches, with respect to paragraph 2 of claim 6, transmitting ABR ATM data and its associated resources management cells over a satellite (spacecraft). See page 1, lines 18 – 20, and page 2, lines 18 – 20 of Applicants written portion of the specification: "Resource management cells are interspersed with the data cells of the ATM source signal." AAPA also teaches, with respect to the last paragraph of this claim, that it is known in the art to mark the resource management cells with information regarding the presence of congestion before distributing them. See page 2, lines 28+. Note further that AAPA teaches the use of back Resource management cells which are used to control congestion through the use of a feedback control loop. See page 3, lines

Application/Control Number: 09/917,111

Art Unit: 2661

18 to 22. While AAPA does discuss the problem associated with simplistic switching capabilities aboard satellites resulting in their incapability of setting bandwidth control bits (page 4, lines 15 – 20), AAPA does not teach a solution to this problem to comprise determining spacecraft payload congestion data relating to services associated with and including, among others, ABR, and then transmitting this information to the source terminal, as required by lines 22 – 27 of this claim. AAPA does not, further teach a method of doing this without using routing switches onboard the satellite, and coupling the spacecraft congestion signals by way of a downlink to the source terminal. AAPA does not additionally teach deleting the Resource Management cells from the stream of ABR data.

Gokhale et al teaches determining spacecraft payload congestion data relating to services associated with and including, among others, ABR, and then transmitting this information to the source terminal without using routing switches onboard the satellite, and coupling the spacecraft congestion signals by way of a downlink to the source terminal. See paragraphs 25 and 26.

While neither Gokahale et al nor AAPA teach deleting the Resource

Management cells, the examiner notes that it would have been obvious to one of
ordinary skill in the art to have done so in view of the fact that since Gokahale et al uses
an offboard system for communicating congestion information to the sending terminal
(ie, via the intermediary satellite 4 in figure 4 of Gokahale et al), there would be no
reason for communicating the Resource Management cells taught in AAPA.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have transmitted congestion information relating to the spacecraft and transmitted it to the source terminal of AAPA in light of the teachings of Gokahale et al in order to provide a means for reducing congestion along the satellite link portion of the system.

With regard to claim 6, see the rejection of claim 1 above and note that the "means other than by use of said routing switches" is discussed in paragraph 25, wherein the "traffic scheduler 22 periodically checks the size of the downlink queues" (par 25, lines 8+).

- 4. Claims 2 5 are allowed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Blount whose telephone number is 571 272 3071. The examiner can normally be reached on M-F 9:00 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Chau Nguyen, can be reached on 571 – 272 - 3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2661

6. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SB 3/4/06

ALPUS H. HSU